

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>MATB-400WO</b>	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. <b>PCT/US2004/026513</b>	International filing date (day/month/year) <b>13/08/2004</b>	(Earliest) Priority Date (day/month/year) <b>09/09/2003</b>
Applicant  <b>MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 2a

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

# INTERNATIONAL SEARCH REPORT

International Application No  
**PCT/US2004/026513**

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B23K26/24 B23K26/08 B23K26/10 B23K26/14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B23K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 502 292 A (PERNICKA ET AL) 26 March 1996 (1996-03-26)	1-4, 6, 7, 12-14, 17, 20-28, 30, 31, 33, 34, 39, 40
Y	the whole document	5, 8-11, 15, 16, 18, 19, 32, 35-38
X, P	DE 102 43 833 A1 (LASER- UND MEDIZIN-TECHNOLOGIE GMBH, BERLIN) 25 March 2004 (2004-03-25)	1-4, 6, 7, 14, 21, 24, 27-31, 33, 34
	the whole document	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the international search

13 April 2005

Date of mailing of the international search report

20/04/2005

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/026513

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 012, no. 057 (M-670), 20 February 1988 (1988-02-20) & JP 62 203694 A (TOYO ALUM KK), 8 September 1987 (1987-09-08) abstract	1-4,6,7, 14,24, 25,27, 29,30
X	----- PATENT ABSTRACTS OF JAPAN vol. 016, no. 299 (M-1274), 2 July 1992 (1992-07-02) & JP 04 081287 A (KAWASAKI STEEL CORP), 13 March 1992 (1992-03-13) abstract	1-4,6,7, 14,24, 25,27, 29,30
X	----- PATENT ABSTRACTS OF JAPAN vol. 014, no. 097 (M-0940), 22 February 1990 (1990-02-22) & JP 01 306085 A (KAWASAKI STEEL CORP), 11 December 1989 (1989-12-11) abstract	1-4,6,7, 14,24, 25,27,30
Y	----- US 4 317 981 A (CHUBAROV ET AL) 2 March 1982 (1982-03-02) the whole document	8-11,15, 16,35-38
Y	----- EP 0 564 995 A (MITSUI PETROCHEMICAL INDUSTRIES, LTD) 13 October 1993 (1993-10-13) the whole document	5,18,19, 32
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/US2004/026513

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5502292	A	26-03-1996	NONE	
DE 10243833	A1	25-03-2004	NONE	
JP 62203694	A	08-09-1987	NONE	
JP 04081287	A	13-03-1992	NONE	
JP 01306085	A	11-12-1989	NONE	
US 4317981	A	02-03-1982	SU 796805 A1	15-01-1981
			DE 2846500 A1	17-05-1979
			FR 2407512 A1	25-05-1979
			IT 1100035 B	28-09-1985
			JP 54089179 A	14-07-1979
			SE 437085 B	04-02-1985
			SE 7811289 A	01-05-1979
EP 0564995	A	13-10-1993	CA 2093286 A1	04-10-1993
			DE 69314080 D1	30-10-1997
			DE 69314080 T2	19-02-1998
			EP 0564995 A1	13-10-1993
			JP 6007974 A	18-01-1994
			US 5347528 A	13-09-1994